



High Pressure Technologies and other Retrieval Tools

Blaine Barton



FoldTrack® Mobile Retrieval Tool



® Manufactured by Non Entry Systems Ltd. UK Patent Application No: 0718573.9

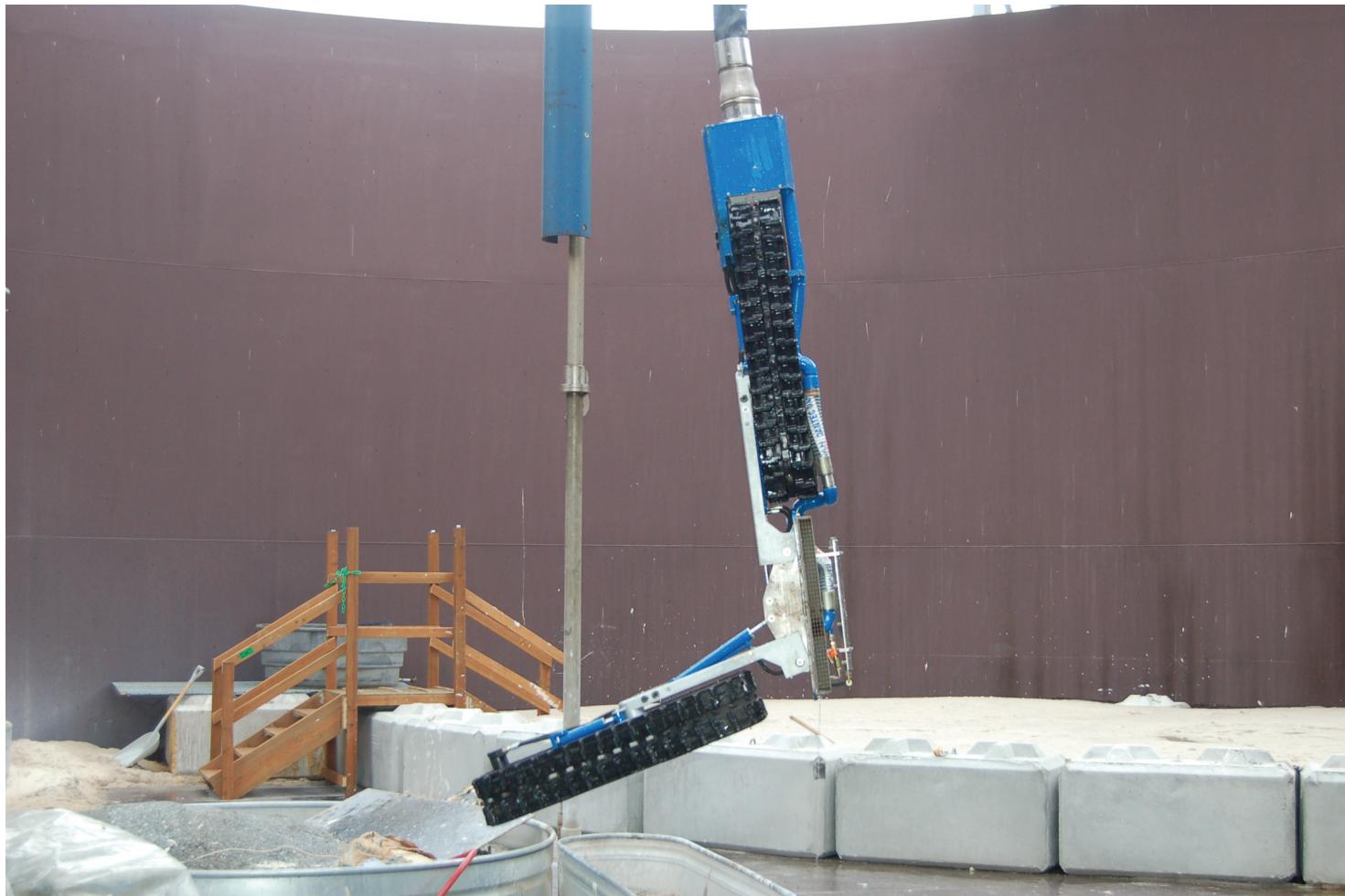
FoldTrack Mobile Retrieval Tool

- Features
 - Mobile platform
 - Deployable through a 12 in. riser
 - 30 in. wide and 5 ft long, 800 pounds
 - Hydraulic power operation using tandem pumps
 - One for drive function
 - One for other functions (blade movement, open/close)
 - Nitrile rubber tracks
 - Can travel up to ~ 5 ft/sec

FoldTrack® in Deployment Mode



FoldTrack® Configuring to Operating Mode

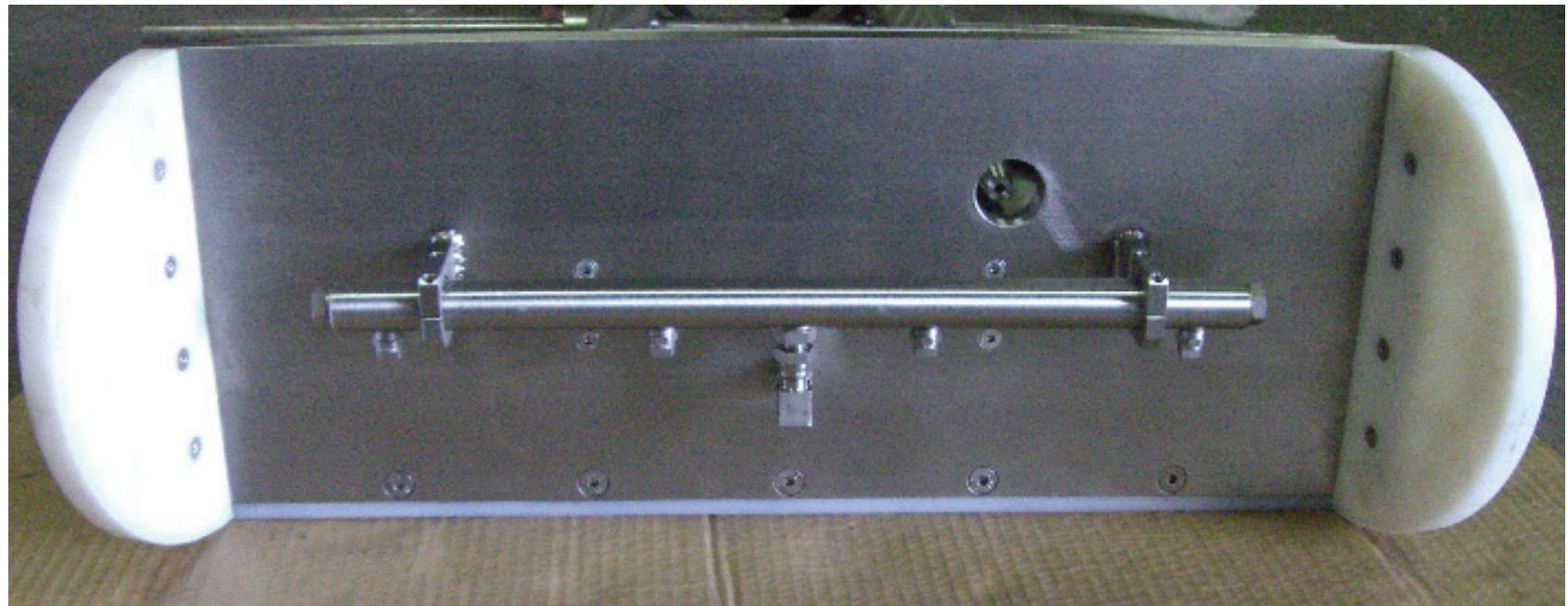


FoldTrack Mobile Retrieval Tool

- Features (continued)
 - Plow blade to move solids
 - Stainless steel blade with ultra-high molecular weight polyethylene (UMPE) bottom strip
 - UMPE side capture fins
 - Able to push/pull 500 pounds
 - Water jet nozzles to break up and move solids
 - One $\frac{1}{4}$ in. jet nozzle mounted through the blade directed forward, perpendicular to blade.
 - Four medium pressure scarifier nozzles located on front of plow blade directed downward, parallel to blade
 - Tracks can also be used to break up solids

FoldTrack Mobile Retrieval Tool

Plow blade and water jetting arrangement



® Manufactured by Non Entry Systems Ltd. UK Patent Application No: 0718573.9

Rotary Viper and Sluicing Rotary Viper

- 7 foot vertical travel; 360 degree rotation or aimable.
- Effective in suspending solids to about 10 foot radius.
- Spare nozzles became plugged by phosphate crystallization which can be cleared by heating.
- Limited sluicing capability

Above Grade Structure of Rotary Viper





Click Frame to Play

Other Technologies

- Sand Mantis
- Caustic Digest of residue.
- Viewing Systems – enhanced video and lighting systems.
- Others as they are identified.

Questions?

Contact Information

W. B. Barton

c/o CH2M HILL Hanford Group, Inc.

P. O. Box 1500 MSIN S7-90

Richland, Wa. 99352

(509)376-5118

W_B_Blaine_Barton@RL.GOV